11 27

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RAW SEQUENCE LISTING
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PATENT APPLICATION: US/09/902,460

TIME: 11:25:51

DATE: 12/10/2001

"XC

Input Set : N:\Crf3\RULE60\09902460.txt
Output Set: N:\CRF3\12102001\I902460.raw

SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
             (i) APPLICANT: FIDDES, J.C.
      5
                             ABRAHAM, J.D.
      6
            (ii) TITLE OF INVENTION: HUMAN BASIC FIBROBLAST GROWTH
      8
                                      FACTOR ANALOG
      9
           (iii) NUMBER OF SEQUENCES: 69
     11
            (iv) CORRESPONDENCE ADDRESS:
     13
                  (A) ADDRESSEE: MORRISON & FOERSTER
     14
                  (B) STREET: 755 PAGE MILL ROAD
     15
                  (C) CITY: Palo Alto
     16
                                                           ENTERED
                  (D) STATE: CA
     17
                  (E) COUNTRY: USA
     18
                  (F) ZIP: 94304-1018
     19
             (V) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: Diskette
     22
                  (B) COMPUTER: IBM Compatible
     23
                  (C) OPERATING SYSTEM: Windows
     24
                  (D) SOFTWARE: FastSEQ for Windows Version 2.0b
     25
            (vi) CURRENT APPLICATION DATA:
     27
                  (A) APPLICATION NUMBER: US/09/902,460
C--> 28
                  (B) FILING DATE: 09-Jul-2001
C--> 29
                  (C) CLASSIFICATION:
     30
     32
           (vii) PRIOR APPLICATION DATA:
                  (A) APPLICATION NUMBER: 09/098,628
     33
                  (B) FILING DATE: 1998-06-16
     34
          (viii) ATTORNEY/AGENT INFORMATION:
     38
                  (A) NAME: Lehnhardt, Susan K
     39
     40
                  (B) REGISTRATION NUMBER: 33,943
                  (C) REFERENCE/DOCKET NUMBER: 21900-20089.10
     41
            (ix) TELECOMMUNICATION INFORMATION:
     43
                  (A) TELEPHONE: 650-813-5600
     44
                  (B) TELEFAX: 650-494-0792
     45
                  (C) TELEX: 706141
     46
     49 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     51
     52
                   (A) LENGTH: 1969 base pairs
                   (B) TYPE: nucleic acid
     53
                   (C) STRANDEDNESS: double
     54
                  (D) TOPOLOGY: linear
     55
            (ii) MOLECULE TYPE: cDNA
     57
     58
            (ix) FEATURE:
                   (A) NAME/KEY: Coding Sequence
     60
                   (B) LOCATION: 970...1434
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                   (D) OTHER INFORMATION:
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            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     64
         AATTCATGCC TCTTTCTCTC CTTTTGTTGG TAGACGACTT CAGCCTCTGT CCTTTAATTT
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RAW SEQUENCE LISTING DATE: 12/10/2001 PATENT APPLICATION: US/09/902,460 TIME: 11:25:51

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68	GCTCTGACAC AGACTCTTCC TTGGATTGCA ACTTCTCTAC TTTGGGGTGG AAACGGCTTC	180									
69	TCCGTTTTGA AACGCTAGCG GGGAAAAAAT GGGGGAGAAA GTTGAGTTTA AACTTTTAAA	240									
70	AGTTGAGTCA CGGCTGGTTG CGCACGAAAA GCCCCGCAGT GTGGAGAAAG CCTAAACGTG	300									
71	GTTTGGGTGG TGCGGGGGTT GGGCGGGGGT GACTTTTGGG GGATAAGGGG CGGTGGAGCC	360									
72	CAGGGAATGC CAAAGCCCTG CCGCGGCCTC CGACGCGCGC CCCCCGCCCC TCGCCTCTCC	420									
73	CCCGCCCCG ACTGAGGCCG GGCTCCCCGC CGGACTGATG TCGCGCGCTT GCGTGTTGTG	480									
74	GCCGAAGCCG CCGAACTCAG AGGCCGGCCC CAGAAAACCC GAGCGAGTAG GGGGCGGCGC	540									
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78											
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82	GCAGGGACC ATG GCA GCC GGG AGC ATC ACC ACG CTG CCC GCC TTG CCC GAG	1011									
83	Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu										
84	1 5 10										
86	GAT GGC GGC AGC GCC TTC CCG CCC GGC CAC TTC AAG GAC CCC AAG	1059									
87	Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys										
88	15 20 25 30										
90	CGG CTG TAC TGC AAA AAC GGG GGC TTC TTC CTG CGC ATC CAC CCC GAC	1107									
91	Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp										
92	35 40 45										
94	GGC CGA GTT GAC GGG GTC CGG GAG AAG AGC GAC CCT CAC ATC AAG CTA	1155									
95	Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu										
96	50 55 60										
98	CAA CTT CAA GCA GAA GAG AGA GGA GTT GTG TCT ATC AAA GGA GTG TGT	1203									
99	Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys										
100	65 70 75										
102	GCT AAC CGT TAC CTG GCT ATG AAG GAA GAT GGA AGA TTA CTG GCT TCT	1251									
103	Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser										
104	80 85 90										
104	AAA TGT GTT ACG GAT GAG TGT TTC TTT TTT GAA CGA TTG GAA TCT AAT	1299									
107	Lys Cys Val Thr Asp Glu Cys Phe Phe Glu Arg Leu Glu Ser Asn										
108	95 100 105 110										
110	AAC TAC AAT ACT TAC CGG TCA AGG AAA TAC ACC AGT TGG TAT GTG GCA	1347									
111	Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala										
112	115 120 125										
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115	Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly	1000									
116	130 135 140										
	<u></u>	1446									
118	Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser	7.440									
119	145 150 155										
120		1506									
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125	ITCTCCCTTT TATATIGCAT CIGCIGITAC CCAGIGAAGC TIACCIAGAG CAATGATCIT	1000									

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DATE: 12/10/2001 TIME: 11:25:51

PATENT APPLICATION: US/09/902,460

126 127 128 129 130 132 134	ATTTCTTCAT GGAAATCATA TACATTAGAA AATCACAGTC AGATGTTTAA TCAATCCAAA AATGTCCACT ATTTCTTATG TCATTCGTTA GTCTACATGT TTCTAAACAT ATAAATGTGA ATTTAATCAA TTCCTTTCAT AGTTTTATAA TTCTCTGGCA GTTCCTTATG ATAGAGTTTA TAAAACAGTC CTGTGTAAAC TGCTGGAAGT TCTTCCGGAA TTC (2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS:													1746 1806 1866 1926 1969		
136		(B)	TY	PE: 8	amino	ac:	id									
137		• •					singl	.e								
138	· ·															
140																
141	. ,															
143	(X1) Met Ala										LOU	Bro	Glu	Aen	Gly	
145 146	met Ala	АІа	GIY	5	me	1111	1111	пеи	10	Ald	пец	FIO	GIU	15	GIY	
147	Gly Ser	Glv	Ala		Pro	Pro	Glv	His		Lvs	Asp	Pro	Lvs		Leu	
148	Ory Der		20				4-1	25		-1-			30	5		
149	Tyr Cys	Lys		Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg	
150		35		_	_		40					45				
151	Val Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu	
152	50					55			_		60					
153	Gln Ala	Glu	Glu	Arg		Val	Val	Ser	Ile		Gly	Val	Cys	Ala		
154	65	_			70	a 1		a 1		75	T	31.	a	T	80	
155	Arg Tyr	Leu	Ala		Lys	Glu	Asp	GIĀ	Arg	Leu	Leu	Ala	ser	Lys 95	Cys	
156 157	Val Thr	Acn	Clu	85 Cvc	Dho	Dho	Dha	Glu		Len	Glu	Ser	Δen		Tur	
158	vai iiii	ASP	100	Cys	FIIC	FIIE	FIIC	105	n y	пец	Olu	DCI	110	11511	-1-	
159	Asn Thr	Tvr		Ser	Ara	Lvs	Tvr		Ser	Trp	Tyr	Val		Leu	Lys	
160		115	5		5		120			•	_	125			-	
161	Arg Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	Lys	Thr	Gly	Pro	Gly	Gln	Lys	
162	130					135					140					
163	Ala Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys							
164	145				150					155						
166	(2) INFO															
168	(i)	SEQU														
169						o Da: ∋ic a	se pa	ilrs								
170 171		٠,					doub]	6								
172						linea										
174	(ii)	MOLE														
175		FEAT														
177	•				EY: (Codi	ng Se	equer	nce							
178						91										
179																
181																
183																
184	GAAAGCG	CCA (CAAG	JAGC	AG C'	rGCT(JAGC(hr Thr	114
185								Me	et Al	La G.	LU G.	LY G.	Lu I.	re II	111 1111	

RAW SEQUENCE LISTING

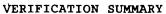
DATE: 12/10/2001

TIME: 11:25:51 PATENT APPLICATION: US/09/902,460

186			1 5														
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189	Phe	Thr	Ala	Leu	Thr	Glu	Lys	Phe	Asn	Leu	Pro	Pro	Gly	Asn	Tyr	Lys	
190		10					15					20					
192	AAG	CCC	AAA	CTC	CTC	TAC	TGT	AGC	AAC	GGG	GGC	CAC	TTC	CTG	AGG	ATC	210
193	Lys	Pro	Lys	Leu	Leu	Tyr	Cys	Ser	Asn	Gly	Gly	His	Phe	Leu	Arg	Ile	
194	25		_			30					35					40	
196	CTT	CCG	GAT	GGC	ACA	GTG	GAT	GGG	ACA	AGG	GAC	AGG	AGC	GAC	CAG	CAC	258
197										Arg					_	_	
198				_	45					50					55		
200	ATT	CAG	CTG	CAG	CTC	AGT	GCG	GAA	AGC	GTG	GGG	GAG	GTG	TAT	ATA	AAG	306
201	Ile	Gln	Leu	Gln	Leu	Ser	Ala	Glu	Ser	Val	Gly	Glu	Val	Tyr	Ile	Lys	
202				60					65					70			
204	AGT	ACC	GAG	ACT	GGC	CAG	TAC	TTG	GCC	ATG	GAC	ACC	GAC	GGG	CTT	TTA	354
205	Ser	Thr	Glu	Thr	Gly	Gln	Tyr	Leu	Ala	Met	Asp	Thr	Asp	Gly	Leu	Leu	
206			75					80					85				
208	TAC	GGC	TCA	CAG	ACA	CCA	AAT	GAG	GAA	TGT	TTG	TTC	CTG	GAA	AGG	CTG	402
209	Tyr	Gly	Ser	Gln	Thr	Pro	Asn	Glu	Glu	Cys	Leu	Phe	Leu	Glu	Arg	Leu	
210	_	90					95					100					
212	GAG	GAG	AAC	CAT	TAC	AAC	ACC	TAT	ATA	TCC	AAG	AAG	CAT	GCA	GAG	AAG	450
213	Glu	Glu	Asn	His	Tyr	Asn	Thr	Tyr	Ile	Ser	Lys	Lys	His	Ala	Glu	Lys	
214	105					110					115					120	
216	AAT	TGG	TTT	${\tt GTT}$	GGC	CTC	AAG	AAG	AAT	GGG	AGC	TGC	AAA	CGC	GGT	CCT	498
217	Asn	Trp	Phe	Val	Gly	Leu	Lys	Lys	Asn	Gly	Ser	Cys	Lys	Arg	Gly	Pro	
218					125					130					135		
220										TTG							546
221	Arg	Thr	His	Tyr	Gly	Gln	Lys	Ala	Ile	Leu	Phe	Leu	Pro	Leu	Pro	Val	
222				140					145					150			
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225	Ser	Ser	Asp														
226			155														
228						AA AA				GΑ							638
230	(2)																
232		(i)				ARACI											
233						: 155			acids	5							
234						amino											
235			• •	•		EDNES		-	Le								
236						3Y:]											
238		•				PE: p											
239						PE: :			30 TI								
241		(X1)	SEQU	JENCI	E DES	SCRIE	TIO	N: SI	SQ II	NO NO	: 4:	T	m l	α1	T	Dha	
243		Ala	Glu	GIY		тте	Thr	Tnr	Pne	Thr	Ala	Leu	Thr	GIU	Lys 15	rne	
244	1	T	D	D	5	7		T	T	10	T	Τ ου	Ton	Merm		Cor	
245	Asn	Leu	Pro		GIY	ASI	туг	гуѕ		Pro	гуѕ	теп	ьeu	30	Cys	ser	
246	7	Q1	C1	20 Hi c	Dha	T 6	λ ~~	т1.	25	Pro	λαν	C1 11	Thr		Nen	Gl v	
247	ASN	СΙУ	35	HIS	rne	Leu	arg	11e	ьeu	PLO	ASP	оту	45	val	изр	оту	
248	mh w	λ ~~~		λ *~~	802	λας	C1 n		T16	Gln	Len	aln		Ser	Δla	Glu	
249	Inr	_	Asp	Ary	ser.	ASP	55	птъ	TIE	GIII	ьeu	60	шeu	DCT	лια	Jiu	
250		50					رر					00					

RAW SEQUENCE LISTING DATE: 12/10/2001 PATENT APPLICATION: US/09/902,460 TIME: 11:25:51

```
Ser Val Gly Glu Val Tyr Ile Lys Ser Thr Glu Thr Gly Gln Tyr Leu
251
252
                          70
     Ala Met Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asn Glu
253
254
                                           90
255
     Glu Cys Leu Phe Leu Glu Arg Leu Glu Glu Asn His Tyr Asn Thr Tyr
256
                 100
                                      105
                                                           110
     Ile Ser Lys Lys His Ala Glu Lys Asn Trp Phe Val Gly Leu Lys Lys
257
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258
     Asn Gly Ser Cys Lys Arg Gly Pro Arg Thr His Tyr Gly Gln Lys Ala
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267
268
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
269
270
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
273
                                                                              60
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              (A) LENGTH: 103 base pairs
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              (C) STRANDEDNESS: single
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284
              (D) TOPOLOGY: linear
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289
                                                                             103
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295
              (A) LENGTH: 16 base pairs
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              (B) TYPE: nucleic acid
297
              (C) STRANDEDNESS: single
298
              (D) TOPOLOGY: linear
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        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
                                                                              16
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303
305 (2) INFORMATION FOR SEQ ID NO: 8:
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         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 17 base pairs
308
309
              (B) TYPE: nucleic acid
310
              (C) STRANDEDNESS: single
311
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
314
                                                                              17
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316
318 (2) INFORMATION FOR SEQ ID NO: 9:
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320
321
              (A) LENGTH: 25 base pairs
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PATENT APPLICATION: US/09/902,460

DATE: 12/10/2001

TIME: 11:25:52

Input Set : N:\Crf3\RULE60\09902460.txt
Output Set: N:\CRF3\12102001\1902460.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]